

What is claimed is:

1. A plurality of sensors comprising:
a first conductive material and a second compositionally
different material formed by a process comprising:
5 spraying a plurality of substrates, each having at least
two conductive leads, with a suspension between the at
least two conductive leads.
2. The plurality of sensors of claim 1, wherein the
10 suspension is applied to the substrates with an airbrush.
3. The plurality of sensors of claim 2, wherein the
airbrush is fitted with a nozzle that sprays in a desired
geometry.
- 15 4. The plurality of sensors of claim 1, wherein the
first material is selected from the group consisting of Ag,
Au, Cu, Pt, carbon black, and AuCu, and the second material
compositionally different than the first material is
20 selected from the group consisting of a non-conductive
material, a semi-conductive material, a conductive organic
material, wherein the conductive organic material is
selected from the group consisting of a polyaniline, an

emeraldine salt of polyaniline, a polypyrrole, a polythiophene, and a polyEDOT.

5 5. A plurality of sensors comprising a first
conductive material and a second compositionally different
material formed by a process comprising:
spraying a substrates, comprising at least 2 pair of
conductive leads, with a suspension between the at least 2
pair of conductive leads thereby forming at least 2
10 sensors.